

CLAIMS:

1. A method for manufacturing an organic electro-luminescent display device, the method comprising the steps of:

- 5       providing a light-permeable substrate;  
          arranging at least one transparent electrode on the light-permeable substrate, the transparent electrode being made of a light-permeable conductive film;  
          forming at least one organic layer on the subassembly,  
10   the at least one organic layer being made of an organic electro-luminescent medium so that the at least one organic layer covers the electrodes;  
          forming a conductive film all over the at least one organic layer; and  
15       removing at least one portion of the conductive film so as to create electrodes being electrical isolated to each other using a radiation method.

20   2. A method for manufacturing a display device according to claim 1, wherein the step of arranging at least on transparent electrode comprises arranging a plurality of transparent electrodes in a stripe-like manner.

25   3. A method for manufacturing a display device according to claim 2, wherein the step of removing at least one portion of the conductive film comprises creating stripe-like electrodes extending in a direction perpendicular to the stripe-like transparent electrodes.

30   4. A method for manufacturing a display device according to claim 1, wherein the step of removing at least one portion of the conductive film using a radiation method comprises using a laser beam.

35   5. A method for manufacturing a display device according to claim 1, wherein the step of removing at least one portion of

the conductive film using a radiation method comprises using an electron beam.

6. A method for manufacturing a display device according to claim 1, wherein the step of at least removing the conductive film comprises removing of at least a portion of the organic layer.

7. A method for manufacturing a display device according to claim 1, wherein the step of forming a conductive film is carried out by vacuum deposition.

8. A method for manufacturing a display device according to claim 1, wherein the method further comprises the step of forming a plurality of insulating ribs on the transparent electrodes; and removing the at least one portion of the conductive film on the insulating ribs using a radiation method.

9. A method for manufacturing a display device according to claim 2, wherein the method further comprises the step of forming a plurality of insulating ribs in a stripe-like manner on the transparent electrodes so as to extend in a direction perpendicular to the transparent electrodes; and removing the at least one portion of the conductive film on the insulating ribs using a radiation method.

10. A method for manufacturing a display device according to claim 8, wherein the step of forming the plurality of ribs on the transparent electrodes comprises arranging the plurality of ribs in laterally spaced rows so as to be parallel to each other.

11. A method for manufacturing a display device according to claim 8, wherein the step of forming the plurality of ribs on the transparent electrodes comprises providing heat to the ribs to cross-link the material of the ribs.

12. A method for manufacturing a display device according to claim 11, wherein the plurality of ribs are made of a photoresist and will be subjected to heat of approximately  
5 220°C.

13. A method for manufacturing a display device according to claim 8, wherein the step of forming the plurality of ribs on the transparent electrodes comprises chamfering the edges of  
10 the ribs opposite to the transparent electrodes.

14. A method for manufacturing a display device according to claim 8, wherein the step of at least removing the conductive film comprises removing of at least a portion of the insulating  
15 rib.

15. A method for manufacturing a display device according to claim 8, wherein removing of the at least one portion of the conductive film comprises removing parts of the insulating  
20 ribs causing a "U"-shape of the insulating ribs.

16. An organic electro-luminescent display device comprising:  
a light-permeable substrate;  
at least one transparent electrode arranged on the  
25 light-permeable substrate and formed of a light-permeable conductive film;  
a plurality of insulating members comprising a valley and consisting at least partially of an insulating material and arranged on the transparent electrodes;  
30 at least one organic layer each formed of an organic electro-luminescent medium and arranged at least between each adjacent two of the insulating members; and  
upper electrodes each made of a conductive film deposited all over the at least one organic layer.

35 17. A display device according to claim 16, having a plurality of strip-like transparent electrodes.

18. A display device according to claim 17, having a plurality of stripe-like isolating members extending in a direction perpendicular to the transparent electrodes.

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19. A display device according to claim 16, wherein the insulating member comprises portions of the organic electro-luminescent medium.

10 20. A display device according to claim 16, wherein the insulating member comprises an insulating material provided for creating insulating ribs on the transparent electrode.

15 21. A display device according to claim 16, wherein the insulating member comprises an insulating material provided to create insulating ribs on the transparent electrode and the organic electro-luminescent medium on top of it.

20 22. A display device according to claim 13, wherein the insulating member comprises an insulating material provided to create insulating ribs on the transparent electrode, the organic electro-luminescent medium on top of it and part of the conductive film.

25 23. A display device according to claim 16, wherein the insulating member is in the shape of an "U".

30 24. A display device according to claim 23, wherein the ends of the legs of the "U" comprise the medium of the at least one organic layer.

25. A display device according to claim 23, wherein the ends of the legs of the "U" comprise material of the conductive film.